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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,850	06/02/2004	Yu-Ren Peng	12971-US-PA	3849

31561 7590 07/11/2006

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE  
7 FLOOR-1, NO. 100  
ROOSEVELT ROAD, SECTION 2  
TAIPEI, 100  
TAIWAN

EXAMINER
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HINES, ANNE M

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 07/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/709,850	<b>Applicant(s)</b> PENG ET AL.	
	<b>Examiner</b> Anne M. Hines	<b>Art Unit</b> 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 22 June 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☒ Claim(s) 10 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 June 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Amendment***

The amendment filed on June 22, 2006, has been entered and acknowledged by the Examiner.

Claims 1-10 are pending in the instant application.

### ***Claim Objections***

Claim 10 is objected to because of the following informalities: Claim 10 depends from claim 1, and therefore the phrase "the material layer" lacks antecedent basis. It appears from the disclosure of the invention and the language of claim 9 that claim 10 is intended to depend from claim 9 since claim 9 provides the proper antecedent basis for the language of claim 10. The Examiner has treated the claim on its merits assuming this correction. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under

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the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Liedenaum (WO 02/093537 A2).

Regarding claim 1, Liedenaum discloses an organic electro-luminescent device, comprising a first substrate (Figs. 1-2, 2; Page 6, line 22 to Page 7, line 6) having a first electrode layer (Figs. 1-2, 6; Page 6, line 22 to Page 7, line 6) and an organic functional layer sequentially disposed thereon (Figs. 1-2, 4; Page 6, line 22 to Page 7, line 6); a second substrate (Figs. 1-2, 1; Page 6, line 22 to Page 7, line 6) having a second electrode layer disposed thereon (Figs. 1-2, 5; Page 6, line 22 to Page 7, line 6); and a conductive layer disposed between the organic functional layer and the second electrode layer (Figs. 1-2, 3; Page 6, line 22 to Page 7, line 6), wherein the second electrode layer is electrically connected the organic functional layer through the conductive layer.

Regarding claim 3, Liedenaum further discloses wherein the first electrode layer comprises a plurality of parallel-aligned first stripe electrodes and the second electrode layer comprises a plurality of parallel-aligned second stripe electrodes such that the first stripe electrodes extend in a direction perpendicular to the second stripe electrodes (Figs. 1-2, 5 & 6; Page 6, line 22 to Page 7, line 6).

Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Fukunaga et al. (US 6559594).

Regarding claim 1, Fukunaga discloses an organic electro-luminescent device, comprising a first substrate (Figs. 3A-3E, Figs. 4A-4D, 335; Column 8, line 60) having a first electrode layer (Figs. 3A-3E, Figs. 4A-4D, 333; Column 8, line 51) and an organic functional layer sequentially disposed thereon (Figs. 3A-3E, Figs. 4A-4D, 331; Column 8, line 8); a second substrate (Figs. 3A-3E, Figs. 4A-4D, 301; Column 8, line 61) having a second electrode layer disposed thereon (Figs. 3A-3E, Figs. 4A-4D, 321; Column 7, line 29); and a conductive layer disposed between the organic functional layer and the second electrode layer (Figs. 3A-3E, Figs. 4A-4D, 326; Column 7, line 41), wherein the second electrode layer is electrically connected the organic functional layer through the conductive layer.

Regarding claim 4, Fukunaga further discloses wherein the conductive layer comprises an anisotropic conductive film (Figs. 3A-3E, Figs. 4A-4D, 326; Column 7, line 41).

Claims 1-2 and 5-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Lu et al. (US 2004/0245917).

Regarding claim 1, Lu discloses an organic electro-luminescent device, comprising a first substrate (Fig. 1, 20; Page 3, Paragraph [0062]) having a first electrode layer (Fig. 1, 30; Page 3, Paragraph [0062]) and an organic functional layer sequentially disposed thereon (Fig. 1, 60; Page 3, Paragraph [0062]); a second substrate (Fig. 1, 100 Page 3, Paragraph [0065]) having a second electrode layer disposed thereon (Fig. 1, 90; Page 3, Paragraph [0062]); and a

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conductive layer disposed between the organic functional layer and the second electrode layer (Fig. 1, 80; Page 3, Paragraph [0062]), wherein the second electrode layer is electrically connected the organic functional layer through the conductive layer.

Regarding claim 2, Lu further discloses wherein the first substrate is a substrate with an array of active devices thereon, the first electrode layer comprises a plurality of pixel electrodes and the second electrode layer serves as a common electrode (Page 4, Paragraph [0071]). Note that the Examiner considers that Lu's disclosure of the device as a television or computer display inherently discloses the claimed structure of an array of active devices with pixel electrodes and a common electrode in order to operate the device as a television display since a television display requires an array of pixels that are separately addressable in order to function as a television.

Regarding claims 5 and 6, Lu further discloses wherein the first electrode layer comprises transparent indium tin oxide (Fig. 1, 30; Page 3, Paragraph [0062]; Page 4, Paragraph [0075]).

Regarding claims 7 and 8, Lu further discloses wherein the second electrode layer comprises transparent indium tin oxide (Fig. 1, 90; Page 3, Paragraph [0065]; Page 4, Paragraph [0075]).

Regarding claim 9, Lu further discloses wherein the device further comprises a low work function material layer disposed over the organic functional layer (Fig. 1, 70; Page 3, Paragraph [0066]).

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Regarding claim 10, Lu further discloses wherein the material layer is calcium (Fig. 1, 70; Page 3, Paragraph [0066]).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Hines whose telephone number is (571) 272-2285. The examiner can normally be reached on Monday through Friday from 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anne M Hines  
Patent Examiner  
Art Unit 2879

*AmH*  
*7/15/06*

*MS*  
**MARICELI SANTIAGO**  
**PRIMARY EXAMINER**